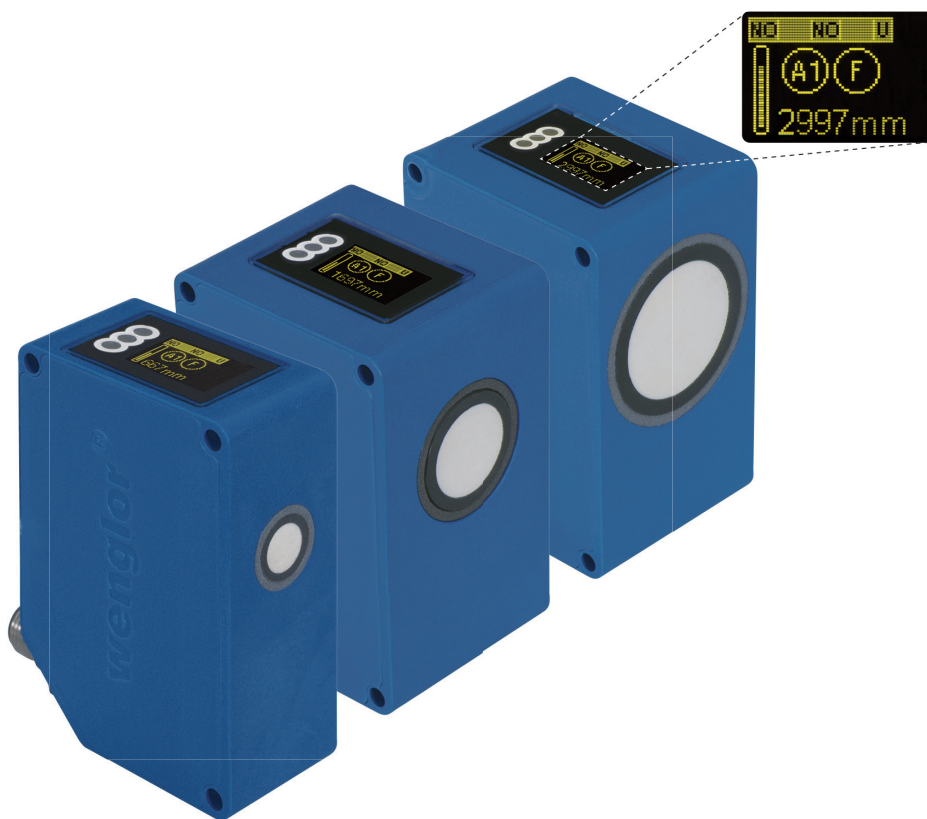


UMSxxxU035

High-Performance Distance Sensors



Interface Description

IO-Link UMSxxxU035

Vendor ID

Product	hex	dec	hex (Bytes)	dec (Bytes)
wenglor sensoric GmbH	0x0057	87	00 57	0 87

Device ID

Product	hex	dec	hex (Bytes)	dec (Bytes)
UMS123U035	0x1A0100	1704192	1A 01 00	26 1 0
UMS303U035	0x1A0200	1704448	1A 02 00	26 2 0
UMS603U035	0x1A0300	1704704	1A 03 00	26 3 0

IO-Link Version: V 1.0
Data Storage: No
Blockparameter: No
Min Cycle Time: 2,3 ms
SIO-Mode: Yes
COM-Mode: COM2

Processdata (Length: 16 Bit)

Name	Bit Offset	Length	Range
Output 1	0	1 Bit	0 = false 1 = true
Output 2	1	1 Bit	0 = false 1 = true
Distance (mm)*	2...15	14 Bit	

* for UMS123U035: Distance (1/10 mm)

Parameter

Name	Index (hex)	Index (dec)	Subindex	R/W	Data type	Default value	Range
Identification							
Direct Parameters 1.Vendor ID 1	0x0000	0	8	R	UInt8		
Direct Parameters 1.Vendor ID 2	0x0000	0	9	R	UInt8		
Direct Parameters 1.Device ID1	0x0000	0	10	R	UInt8		
Direct Parameters 1.Device ID2	0x0000	0	11	R	UInt8		
Direct Parameters 1.Device ID3	0x0000	0	12	R	UInt8		
Parameter							
Sensor Parameter							
Device Reset	0x0001	1	1 (Bit 0)	R/W	Bool		0 = – 1 = Reset
A1 Teach	0x0001	1	1 (Bit 1)	R/W	Bool		0 = – 1 = Teach-In
A1 NC/NO	0x0001	1	1 (Bit 3)	R/W	Bool		0 = NO 1 = NC
A1 Teach Mode	0x0001	1	1 (Bit 4...5)	R/W	UInt2		0 = Foreground Teach-In 1 = Background Teach-In 2 = Window Teach-In
Multiplex Address	0x0001	1	2 (Bit 0...3)	R/W	UInt4		1...15
Multiplex Devices	0x0001	1	2 (Bit 4...7)	R/W	UInt4		1...15
Operating Mode	0x0001	1	3 (Bit 0...2)	R/W	UInt3		0 = Normal 1 = Synchron Mode Slave 2 = Synchron Mode Master 3 = Synchron Mode Receiver 4 = Multiplex Slave 5 = Multiplex Master 6 = Mute
Detection Mode	0x0001	1	3 (Bit 3...4)	R/W	UInt2		0 = Best Signal 1 = Closest Signal 2 = Widest Signal
Sonic Cone	0x0001	1	3 (Bit 5...6)	R/W	UInt2		0 = Extra slim 1 = Slim 2 = Medium width 3 = Standard
Temperature Mode	0x0001	1	3 (Bit 7)	R/W	Bool		0 = Internal 1 = External
Name	Index (hex)	Index (dec)	Subindex	R/W	Data type	Default value	Range
ext Temperature (High Byte)	0x0001	1	4	R/W	UInt8		
ext Temperature (Low Byte)	0x0001	1	5	R/W	UInt8		
Filter	0x0001	1	6 (Bit 0...3)	R/W	UInt4		0...7
Analog Mode	0x0001	1	6 (Bit 4)	R/W	Bool		0 = 0...10 V 1 = 4...20 mA
Teach Analog 0 V/4 mA	0x0001	1	6 (Bit 6)	R/W	Bool		0 = – 1 = Teach-In
Teach Analog 10 V/20 mA	0x0001	1	6 (Bit 7)	R/W	Bool		0 = – 1 = Teach-In
A1 Switch Point (High Byte)	0x0001	1	7	R/W	UInt8		
A1 Switch Point (Low Byte)	0x0001	1	8	R/W	UInt8		
A1 Window Size (High Byte)	0x0001	1	9	R/W	UInt8		
A1 Window Size (Low Byte)	0x0001	1	10	R/W	UInt8		
A1 Hysteresis (High Byte)	0x0001	1	11	R/W	UInt8		
A1 Hysteresis (Low Byte)	0x0001	1	12	R/W	UInt8		